

Kansas Enterprise Electronic Preservation (KEEP) System

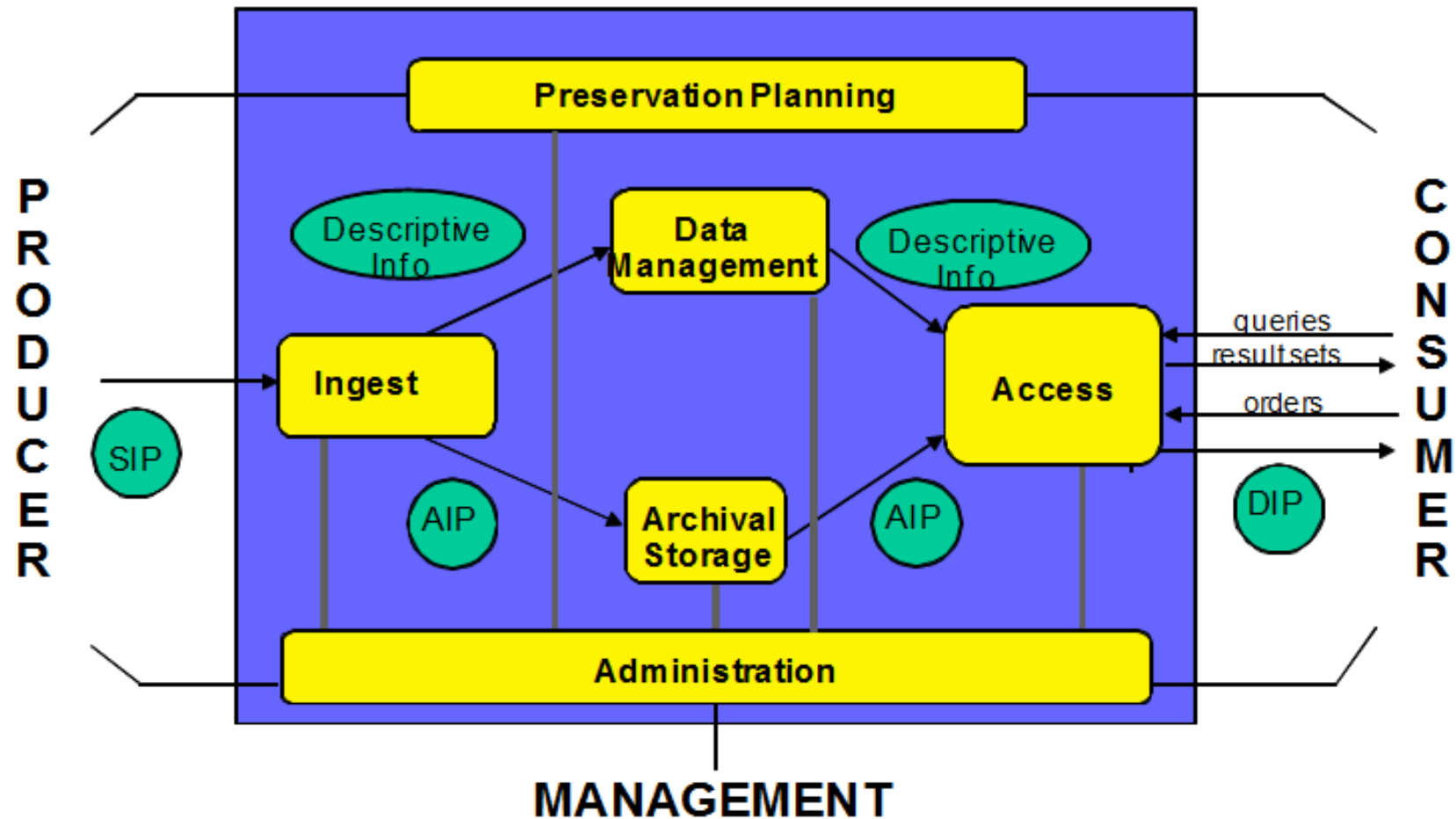
ITAB Presentation

June 21, 2011

What is KEEP?

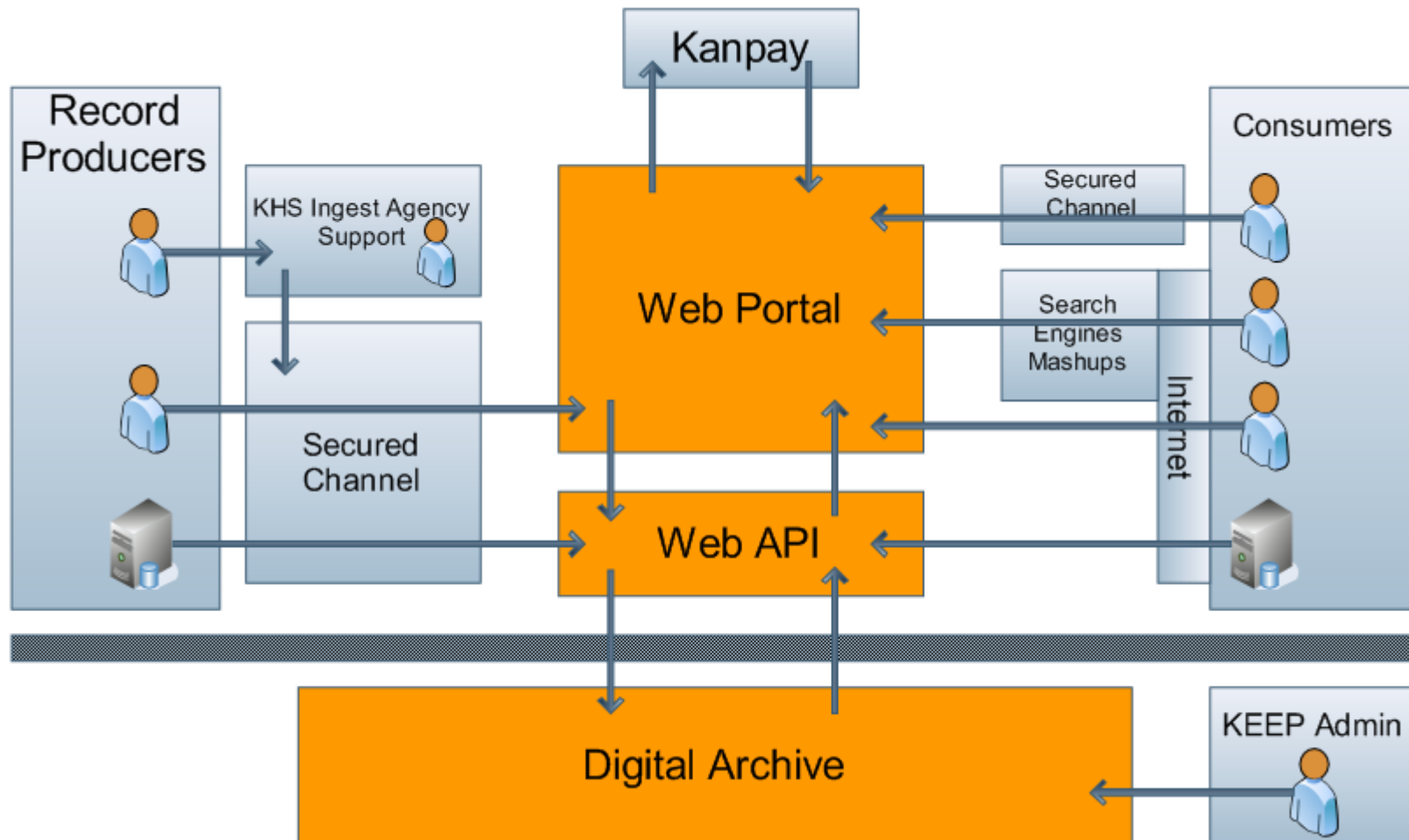
- Kansas Enterprise Electronic Preservation system
- Trusted digital repository for KS government records with long-term value
 - Long-term = long enough for there to be a concern about changing technologies
 - Long-term for KEEP = 10+ year retention period

OAIS Functional Entities

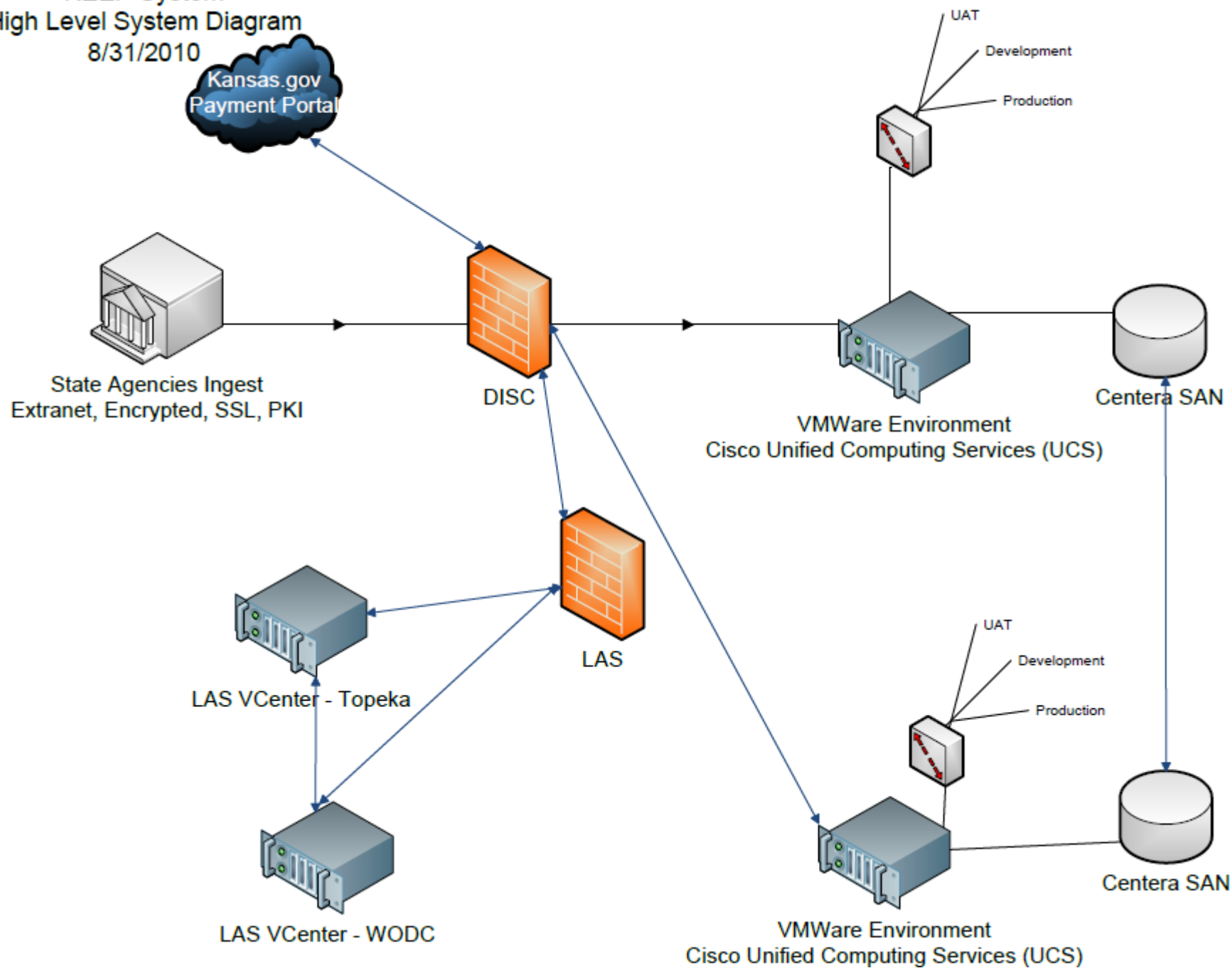


SIP = Submission Information Package
AIP = Archival Information Package
DIP = Dissemination Information Package

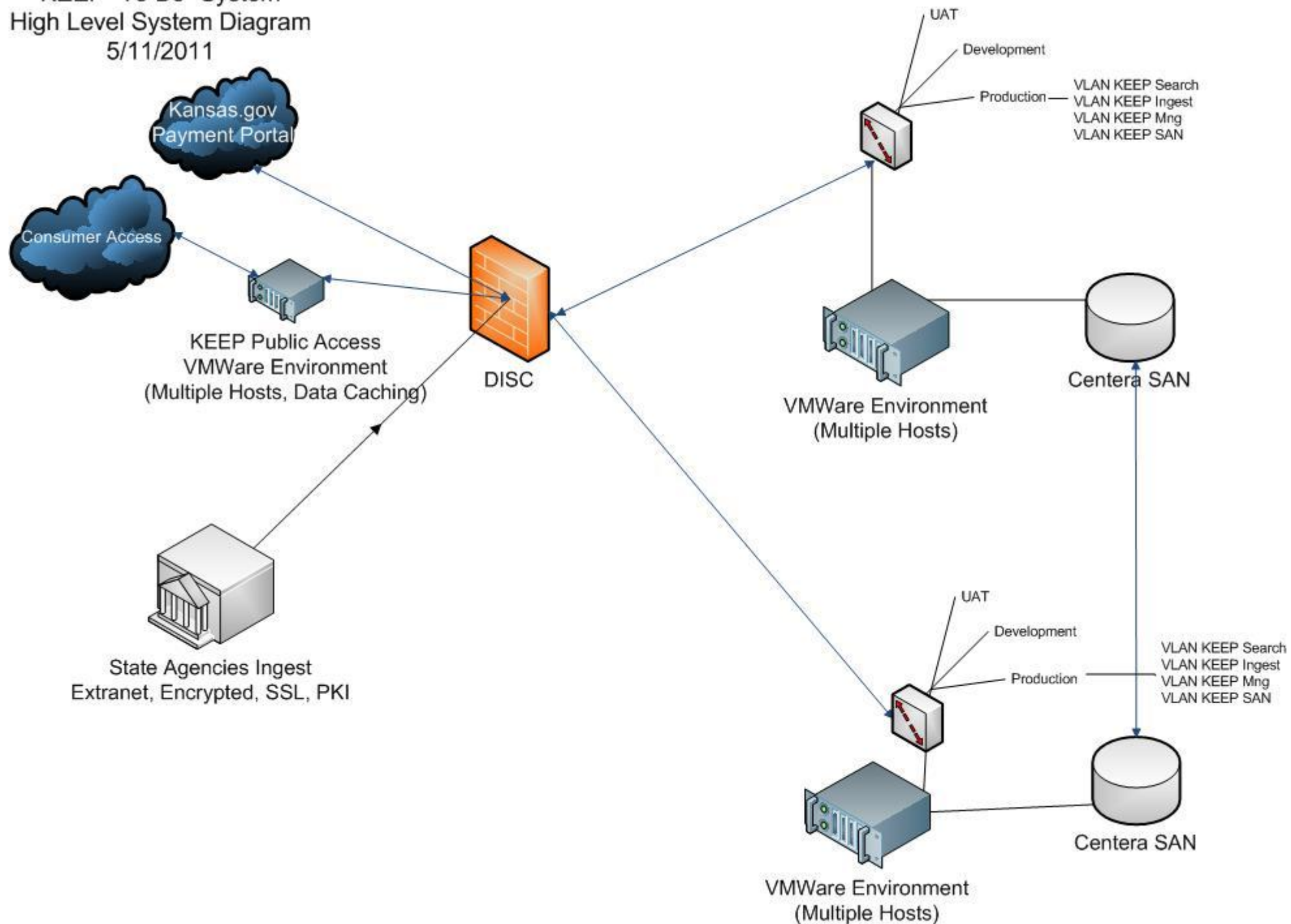
KEEP Architecture



KEEP System
High Level System Diagram
8/31/2010



KEEP "To Be" System
High Level System Diagram
5/11/2011



Prototype to Production: Level of Effort

- Total requirements in Prototype System: 79.6%
 - 41.86% Inherent in 3rd Party tools, hardware, INK, manual processes, policy framework
 - 37.74% New application development
- Requirements to develop in Production Phase: 20.4%
 - 9 build iterations
 - Core system due December 1, 2011
 - Full system due March 1, 2012

Prototype to Production: Ingest

- Producer authentication
- Automated SIP creation tools
- Submission agreement validation
- Automated metadata harvesting

Prototype to Production: Archives & Preservation

- Variable retention periods
- Administrative reports
- Preservation planning process

Prototype to Production: Access

- Authentication & certification
- Access restrictions
- Public website

OAIS Compliance

Requirements:

1. Accept Information from Producers
2. Obtain Control of Information
3. Determine Designated Community
4. Independently Understandable
5. Disseminate to Designated Community
6. Disseminate Authenticated Copies

Two Approaches

- Out of the Box
 - DSPACE, Documentum
 - Can be sufficient
 - Little ability to modify
- Building Blocks Solution
 - Fedora Commons
 - Includes basics to build upon
 - Insufficient on its own